

The following Kodak Processing Laboratories are equipped to handle this film:

Eastman Kodak Company—Kodak Park, Bldg. 65, Rochester, New York 14650
Eastman Kodak Company—1712 South Prairie Avenue, Chicago, Illinois 60616
Eastman Kodak Company—1350 Okie Street, N.E., Washington, D. C. 20013
Eastman Kodak Company—16-31 Route 208, Fair Lawn, New Jersey 07410
Eastman Kodak Company—1017 N. Las Palmas Avenue, Hollywood, California 90038
Eastman Kodak Company—925 Page Mill Road, Palo Alto, California 94304
Eastman Kodak Company—4729 Miller Drive, Chamblee, Georgia 30005

Processing service for this film may also be offered by other laboratories.

Motion Picture and Education Markets Division • EASTMAN KODAK COMPANY • Rochester, N. Y. 14650

EASTMAN Reversal Color Print Film

TYPE 7387 (16mm)

GENERAL PROPERTIES:

This film is intended for making color prints from 16mm originals on EKTACHROME Commercial Film, Type 7255. It can also be used for making prints from originals on KODACHROME II, Daylight Type, KODACHROME II, Type A, EKTACHROME ER and MS Films. It is not intended for making original exposures in the camera.

COLOR BALANCE AND PICTURE PRINTING:

Reversal Color Print Film is balanced so that nearly correct color rendering will be obtained with the following combination of light source and filters.

LIGHT SOURCE:

A tungsten light source operated at a color

temperature of approximately 2900K is recommended for use with this film.

As an example of a typical subtractive printer setup, a Bell and Howell Model J Printer, equipped with a 300-watt tungsten lamp with ground glass diffuser in the optical system, operating at 2.5 amperes d.c. (approx. 115 volts) and at a printer speed of 120 ft/min gives a satisfactory exposure level at an average diaphragm setting of 16.

FILTERS:

A filter pack, to serve as a starting point, for use in the printer for making prints from originals on EKTACHROME Commercial Film, Type 7255, would consist of the following:

Heat Absorbing Glass (between lamp and filter)	PITTSBURGH No. 2043, 4mm thickness* (Pittsburgh Plate Glass Co.)
KODAK Color Compensating Filters	CC-05M plus CC-45Y
KODAK WRATTEN No. 96 Neutral Density Filter**	D = 0.90

*Available on special order from Motion Picture and Education Markets Division, Eastman Kodak Co., Rochester, N. Y. 14650

**It is usually desirable to have a certain amount of neutral density in the filter pack. This permits easy adjustment of the overall light transmittance of the pack when it is necessary to correct the overall color balance for different emulsion numbers of print stock by removal or insertion of color compensating filters.

For making prints from originals on KODACHROME II, Daylight Type and KODACHROME II, Type A, using the printer lamp

operating conditions described above, the following filter pack is suggested for an average diaphragm setting of 16:

Heat Absorbing Glass (between lamp and filter)	PITTSBURGH No. 2043, 4mm thickness (Pittsburgh Plate Glass Co.)
KODAK Color Compensating Filters	CC-05C plus CC-45Y
KODAK WRATTEN No. 96 Neutral Density Filter	D = 0.70

Due to variations in optical systems, light sources, and even in printers of the same type, the above combinations may need to be changed to meet individual conditions. To introduce further corrections, additional KODAK Color Compensating Filters will be needed.

The correct color balance for each emulsion number of Reversal Color Print Film should be determined by making photographic tests using the particular printer intended for production work. These tests are most conveniently made by adding and

removing CC filters from the basic filter pack to provide several color balance conditions.

For those laboratories who have additive-type color printing equipment, the following may be helpful:

A Bell and Howell Model C Printer, equipped with a 1000-watt tungsten lamp and PITTSBURGH No. 2043 (4mm thickness) heat absorbing glass, operated with a lamp voltage of 90 and a printer speed of 180 ft/min gives satisfactory exposure with the following settings:

When printing from originals on EKTACHROME Commercial Film:

Beam	Trimmer Setting	Neutral Density Filter	Vane Setting
Red	4	0.10	10
Green	8	0.50	25
Blue	4	0.50	15

When printing from originals on KODACHROME II Film:

Red	4	0.10	13
Green	8	0.50	33
Blue	4	0.50	21

SOUND TRACK PRINTING:

Reversal Color Print Film is designed in such a manner as to yield a non-reversal silver sound track rather than a reversal dye-sulfide track. The track should therefore be exposed from a negative rather than from a positive record. Original negative recordings should be made in such a

manner as to suit the particular image spread characteristics of Reversal Color Print Film. While the exact conditions will depend on the particular developer formulas employed, the following may be used as a guide:

Type of Track	Film	Light Source	Filter	KODAK Developer	Control Gamma	Sound Track Density*
Variable area	F.G. Sound Recording Film, Type 7375	Tungsten	None	D-97	3.0-3.5	2.2 to 2.5**
Variable density	F.G. Sound Recording Film, Type 7373	Tungsten	None	D-96	0.55-0.60	0.55 to 0.60†

*Includes base density

**Or determine by cross-modulation test

†Or determine by intermodulation test

If the original sound recording is on magnetic tape and this is available, then it is preferable to re-record a negative track to the above specifications.

In exposing the track area on Reversal Color Print Film, the color balance of the

illumination should be adjusted so as to utilize only the top two emulsion layers. This balance is closely approximated by the following filter combination when used with a tungsten light source operating at a color temperature of about 2900K.

Heat Absorbing Glass (between lamp and filter)	PITTSBURGH No. 2043 (4mm)*	or	PITTSBURGH No. 2043 (4mm)*
Correction Filter	KODAK No. 42*		KODAK WRATTEN No. 38A
Neutral Density Filter	KODAK WRATTEN No. 96, D = 1.90		KODAK WRATTEN No. 96, D = 1.50

*Available on special order from Motion Picture and Education Markets Division, Eastman Kodak Co., Rochester, N. Y. 14650

The same filter pack may be used for exposing either variable area or variable density type tracks. Exposure should be adjusted to give a print density of 1.5 to 1.8 for variable area tracks and 0.60 to 0.65 for variable density tracks. Since the sound

track is silver only and contains no dye, density measurements may be made either visually or by infrared although slightly different values may be obtained in each case.

RESOLVING POWER:*

Test Object Contrast	1.6:1	1000:1
Lines per mm	79	141
Development	Process RCP-2	

*These values were determined as described in "A Simple Camera for the Measurement of Photographic Resolving Power," by J. H. Altman, Phot. Science and Eng., Vol. 5, No. 1, pp. 17-20, Jan.-Feb. 1961.

SAFELIGHT:

Reversal Color Print Film may be handled under illumination provided by standard safelight fixtures fitted with the KODAK Safelight Filter WRATTEN Series 8.

Note: This film has about twice the emulsion speed of the former EASTMAN Reversal Color Print Film, Type 5269. On this account, the safe illumination level for

Type 7387 is only about half of that which was suitable for Type 5269. Safelight tests should be made before proceeding with production work with this new film in exposing both picture and sound track.

BASE:

Safety base with removable jet antihalation backing.

ROLL LENGTHS, PERFORATIONS, CORES AND WINDINGS

Stock Rolls	Core	Perforation Types			Windings		Footage Numbering
		2R-3000	1R-3000	2R-1500	A	B	
16mm x 400 ft.	T			•			None
16mm x 1200 ft.	Z	•	•	•	•	•	None
16mm x 2000 ft.	Z	•	•		•	•	None

Rolls Available But Not Regularly Stocked

16mm x 400 ft.	T	•	•		•	•	None
16mm x 2000 ft.	Z			•			None

STORAGE OF RAW STOCK:

Reversal Color Print Film which is to be stored for an extended period should be held at a temperature not exceeding 55F. Upon removal from storage, ample time should be allowed for the film to reach equilibrium with the workroom conditions before the tape is removed from the can, in order to avoid condensation of moisture on the cold film from the atmosphere.

STORAGE OF FILM AFTER EXPOSURE:

The film should be processed soon after exposure.

PROCESSING:

Reversal Color Print Film requires special handling in processing. It should be properly identified on the film container as Reversal Color Print Film, Type 7387, either silent or sound when it is sent by a dealer to a Kodak Laboratory for processing.